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DATE MAILED: 03/30/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,072	01/28/2004	Jianmin Qiao	248157US77DIV	9478
22850	7590 03/30/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			SCHILLINGER, LAURA M	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2813	

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u> </u>		
, ,		Application No.	Applicant(s)			
Office Action Summary		10/765,072	QIAO, JIANMIN			
		Examiner	Art Unit			
		Laura M. Schillinger	2813			
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address			
THE - External control	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repo period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to bly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror te, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communic ED (35 U.S.C. § 133).	eation.		
Status						
1)[汉]	Responsive to communication(s) filed on 28 2	lanuary 2004				
	-	s action is non-final.				
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5) [6) [7) [Claim(s) 11,12,14,15 and 17 is/are pending in 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 11-12,14-15, 17 are subject to restrict	awn from consideration.				
Applicat	tion Papers					
9)[The specification is objected to by the Examin	er.				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E					
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureates the attached detailed Office action for a list	nts have been received. nts have been received in Applica ority documents have been receiv au (PCT Rule 17.2(a)).	tion No ved in this National Stage	;		
Attachmei	nt(s)					
	ce of References Cited (PTO-892)	4)				
3) 🔲 Info	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date		Patent Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species 1, claim 11 pertaining to a method of etching a trench dielectric with an etch stop layer of undoped silicon oxide having a hole containing a trench dielectric material;

Species 2, claims 12 and 14, pertaining to a method including depositing a etch stop layer, a contact layer, a trench dielectric layer with a trench made by etching a first and second oxide layer and forming a conductive interconnect in the trench;

Species 3, claims 15 and 17, pertaining to a method including forming a second hole through a contact dielectric below a first hole and aligned therewith.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Corwin Umbach on 3/22/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

04/01/05

Laura M Schillinger Primary Examiner Art Unit 2813